

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P799774

Luminaire Tested: **LD6C50D010 EU6509027 6LBMDDWLI**

Issue Date: 4/12/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P799774  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2309-186-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD6C50D010 EU6509027 6LBMDDWLI  
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LBMDDW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

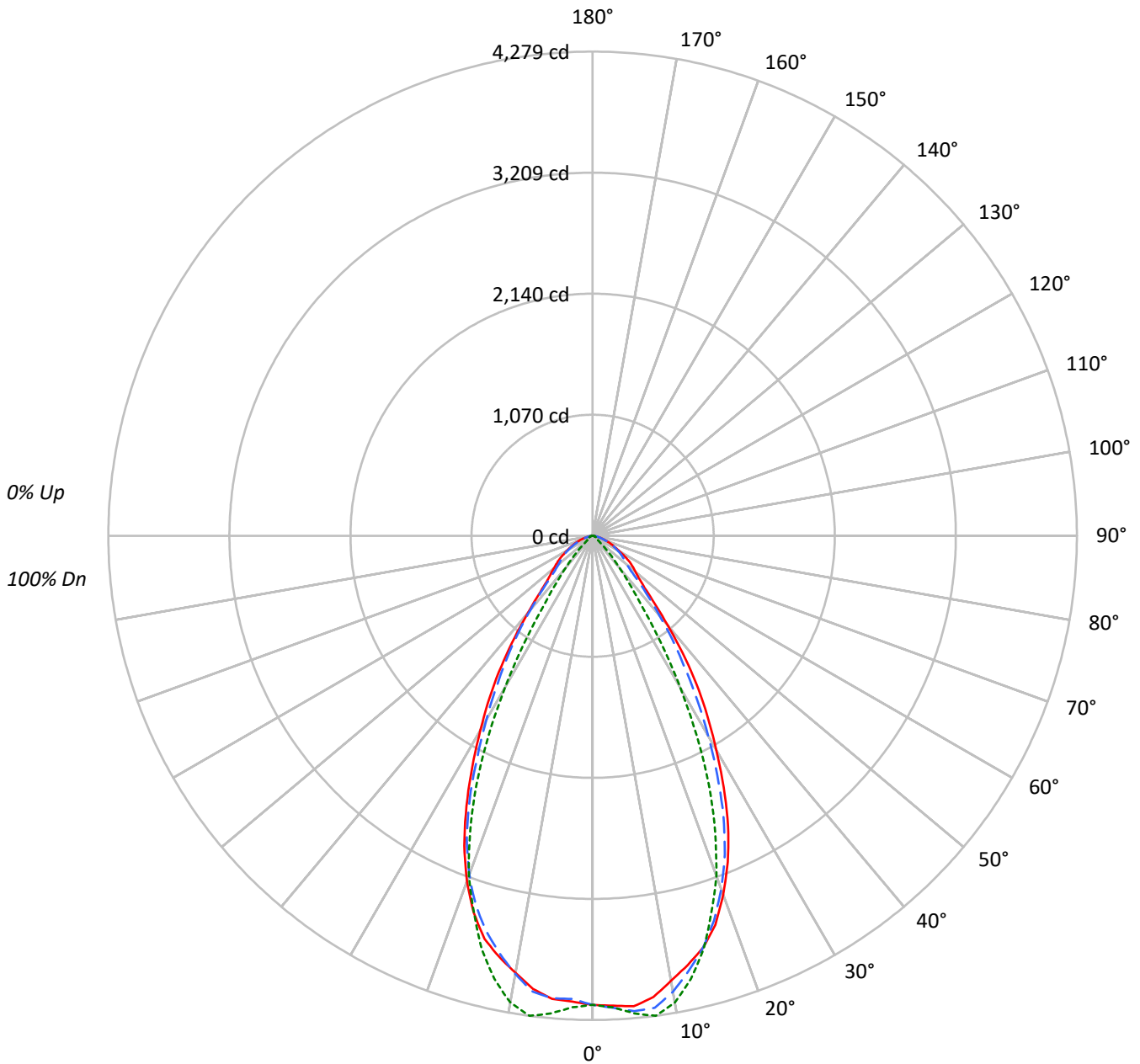
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4221.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 0.92 / 0.87 / 0.88  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 58.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91				
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83				83				
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				70				
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64				64				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59				
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57	55				55				
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51				51				
9	71	61	55	50	70	60	54	50	59	54	50	58	53	50	58	53	50	48				48				
10	68	57	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	227290	227290	227290
5°	229671	233149	226072
10°	222229	233145	218355
15°	213883	214723	209337
20°	196851	186514	189466
25°	171318	147081	159584
30°	138167	97718	125355
35°	107124	50386	94134
40°	73495	26106	63383
45°	50354	13079	44470
50°	41909	5578	38131
55°	37695	4836	34063
60°	29833	4627	28441
65°	24620	4099	24348
70°	19939	3719	19939
75°	14742	4024	15631
80°	8650	3315	9313
85°	6604	3963	6604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.7	9.4
10°-20°	1035.9	24.5
20°-30°	1182.4	28.0
30°-40°	784.1	18.6
40°-50°	378.2	9.0
50°-60°	232.7	5.5
60°-70°	140.8	3.3
70°-80°	59.2	1.4
80°-90°	13.1	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2612.9	61.9
0°-40°	3397.1	80.5
0°-60°	4007.9	95.0
0°-90°	4221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4146	4146	4146	4146	4146	
5°	4174	4218	4237	4102	4108	392
15°	3769	3769	3783	3623	3688	1050
25°	2832	2737	2432	2573	2638	1284
35°	1601	1411	753	1316	1407	990
45°	650	569	169	531	574	530
55°	394	321	51	321	356	347
65°	190	181	32	171	188	191
75°	70	70	19	65	74	74
85°	10	15	6	10	10	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	4146.1	4146.1	4146.1	4146.1	4146.1	4146.1	4146.1	4146.1	4146.1
2.5°	4156.7	4163.0	4175.7	4177.8	4171.4	4131.4	4097.6	4110.3	4120.8
5°	4173.6	4186.2	4217.8	4247.4	4236.8	4169.3	4101.8	4099.7	4108.2
7.5°	4112.4	4141.9	4207.3	4281.1	4279.0	4163.0	4063.9	4038.6	4038.6
10°	3992.2	4019.6	4091.3	4190.4	4188.3	4042.8	3933.1	3920.5	3922.6
12.5°	3884.6	3897.3	3933.1	4011.2	4011.2	3867.8	3783.4	3796.1	3812.9
15°	3768.6	3777.1	3768.6	3793.9	3783.4	3665.3	3623.1	3663.2	3688.5
17.5°	3604.1	3608.4	3564.1	3530.3	3490.3	3416.4	3427.0	3486.0	3492.4
20°	3374.3	3401.7	3321.5	3235.1	3197.1	3127.5	3186.6	3252.0	3247.7
22.5°	3121.2	3152.8	3049.5	2906.1	2828.1	2800.6	2906.1	2965.1	2963.0
25°	2832.3	2855.5	2737.4	2537.0	2431.6	2427.4	2572.9	2634.0	2638.3
27.5°	2507.5	2515.9	2383.1	2121.6	1990.8	2022.5	2205.9	2290.3	2300.8
30°	2182.7	2178.5	2041.4	1716.7	1543.7	1630.2	1876.9	1969.7	1980.3
32.5°	1885.4	1872.7	1716.7	1328.6	1121.9	1250.6	1575.4	1672.4	1689.2
35°	1600.7	1579.6	1410.9	982.8	752.9	944.8	1316.0	1400.3	1406.6
37.5°	1303.3	1292.8	1159.9	736.0	525.1	717.0	1073.4	1134.6	1128.3
40°	1027.0	1027.0	917.4	546.2	364.8	533.6	849.9	904.7	885.7
42.5°	805.6	816.2	723.4	402.8	259.4	396.5	672.7	723.4	702.3
45°	649.5	649.5	569.4	299.5	168.7	295.2	531.4	577.8	573.6
47.5°	550.4	542.0	461.9	219.3	92.8	221.4	447.1	504.0	501.9
50°	491.4	478.7	396.5	172.9	65.4	183.5	392.3	445.0	447.1
52.5°	445.0	426.0	356.4	154.0	56.9	160.3	356.4	398.6	398.6
55°	394.4	383.8	320.6	137.1	50.6	143.4	320.6	358.5	356.4
57.5°	333.2	331.1	286.8	124.4	46.4	126.5	286.8	310.0	301.6
60°	272.1	280.5	248.9	111.8	42.2	113.9	244.6	263.6	259.4
62.5°	227.8	238.3	217.2	99.1	35.9	101.2	206.7	225.7	221.4
65°	189.8	198.2	181.4	84.4	31.6	84.4	170.8	187.7	187.7
67.5°	156.1	162.4	149.7	69.6	27.4	69.6	139.2	154.0	156.1
70°	124.4	128.6	118.1	54.8	23.2	56.9	109.7	124.4	124.4
72.5°	97.0	99.1	92.8	44.3	21.1	44.3	84.4	97.0	97.0
75°	69.6	73.8	69.6	33.7	19.0	33.7	65.4	71.7	73.8
77.5°	40.1	50.6	50.6	27.4	14.8	25.3	46.4	48.5	48.5
80°	27.4	31.6	35.9	19.0	10.5	19.0	29.5	31.6	29.5
82.5°	19.0	21.1	21.1	12.7	8.4	12.7	19.0	21.1	19.0
85°	10.5	14.8	14.8	10.5	6.3	8.4	10.5	12.7	10.5
87.5°	6.3	8.4	10.5	8.4	6.3	6.3	6.3	6.3	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)